

## CHAPTER NINE

# ELECTRICAL SYSTEM

This chapter contains service and test procedures for all electrical and ignition components. Information regarding the battery and spark plug are covered in Chapter Three.

Models equipped with electronic shifting (FE and TE models) are also equipped with a digital combination meter that is mounted above the handlebar. Other models are equipped with standard lamp type indicator lights, but may be equipped with the digital combination meter as optional equipment.

The electrical system includes the following:

1. Charging system.
2. Ignition system.
3. Starting system
4. Lighting system.
5. Electrical components.

**Tables 1-6** are located at the end of this chapter.

### ELECTRICAL COMPONENT REPLACEMENT

Most ATV dealerships and parts suppliers will not accept the return of any electrical part. If you cannot determine the *exact* cause of any electrical system malfunction, have a Honda dealership retest that specific system to verify your test results. If you purchase a new electrical component(s), install it, and then find that the system still does not work

properly, you will probably be unable to return the unit for a refund.

Consider any test results carefully before replacing a component that tests only *slightly* out of specification, especially resistance. A number of variables can affect test results dramatically. These include: the testing meter's internal circuitry, ambient temperature and conditions under which the machine has been operated. All instructions and specifications have been checked for accuracy; however, successful test results depend to a great degree upon individual accuracy.

### Resistance and Peak Voltage Testing

Resistance readings will vary with temperature. The resistance increases when the temperature increases and decreases when the temperature decreases.

Specifications for resistance are based on tests performed at a specific temperature (68° F [20° C]). If a component is warm or hot let it cool to room temperature. If a component is tested at a temperature that varies from the specification test temperature, a false reading may result.

To measure peak voltage, use a tester capable of measuring peak voltage or a voltmeter that has a minimum input impedance of 10M ohms/DCV and is coupled to a peak voltage adapter. An equivalent

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